	Application No.	A 1! 4/->
	Application No.	Applicant(s)
Notice of Allowability	10/616,528	GLOVATSKY ET AL.
	Examiner	Art Unit
	Ingrid Wright	2835
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate community IGHTS. This application is	n this application. If not included unication will be mailed in due course. THIS
1. This communication is responsive to 7/13/2006.		
2. ⊠ The allowed claim(s) is/are <u>1-11</u> .		
 Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). 	e been received. e been received in Applicati	on No
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirements
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) including changes required by the Notice of Draftspers		w (PTO-948) attached
1) hereto or 2) to Paper No./Mail Date	-	· · · ·
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment o	r in the Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 		
	. ·	
Attachment(s)		
1. Notice of References Cited (PTO-892)	<u></u>	nformal Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413), /Mail Date
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date		Amendment/Comment
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. 🗌 Examiner's	Statement of Reasons for Allowance
or protogredi Material	9. ⊠ Other <u>2 <i>At</i>t</u>	achments.
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	SUP	LYNN FEILD ERVISORY PATENT EXAMINER
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DETAILED ACTION

Allowable Subject Matter

1. Claims 1-11 are allowed.

2. The following is an examiner's statement of reasons for allowance: the allowability resides in the

overall structure of the device as recited in independent claim 1, because claim 1 recites: "at least one

axial channel interposed between the outer surface and the inner surface." The aforementioned

limitations in combination with all remaining limitations of claim 1 are believed to render the claims and

all claims dependent therefrom patentable over the art of record.

Note: See attached fig. 6A of Sasaki et al. & fig. 2 of Williams for elements representing limitations

claimed in the instant application.

US 5204806 to Sasaki et al. is considered a close reference to the instant application. Sasaki et al.

disclosed a housing (1) (see, fig. 6A), a cylindrical wall (see, wall of (1)) defining a central axis (see,

center point along line B-B), a central compartment (see, fig. 6A), an inner surface (see, fig. 6A), an

assembly support surface (see, fig. 6A) comprising a microelectronic assembly (3), but is silent

specifically as to channels adapted for conveying cooling gas.

US 4756644 to Williams is considered to a close reference to the instant application. Williams disclosed

a housing (10), comprising a cylindrical wall and channels (34) on a flange (28) adapted for conveying

cooling gas through the housing (10).

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Although, the cited references are considered the closest references to the instant application, the central axis formed by the channels (34) of Williams will overlap the axial channel of Sasaki et al., located on the microelectronic assembly (see, fig. 6A of Sasaki et al.). The flange (28) of Williams is designed to be secured to a cylindrical outer wall of a housing, via welding, and would clearly overlap the microelectronic assembly located in the annular space of Sasaki et al. Furthermore, Sasaki et al. is silent as to mounting any such cooling channel structure between the solid wall of the cylindrical housing (1).

The Examiner has cited the following: US 6880335 B2, US 5105337, US 5121188, US 6137171, US 5621617, US 5794687, US 6346,000 B1, US 7030486 B1, US 20030185689 A1, US 6404637 B2, US 6665182 B2 & US 6404636 B1 are considered pertinent references to the instant application.

None of the cited references either alone or in combination is believed to render Examiner believed to render the present invention unpatentable as claimed.

- 3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ingrid Wright whose telephone number is (571) 272-8392. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Feild can be reached on (571) 272-2800, ext 35. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an

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application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

IDW

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